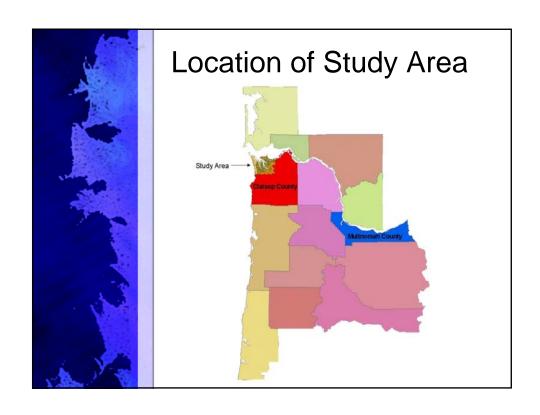
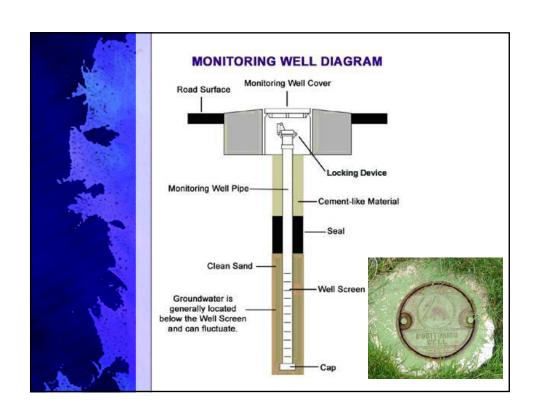


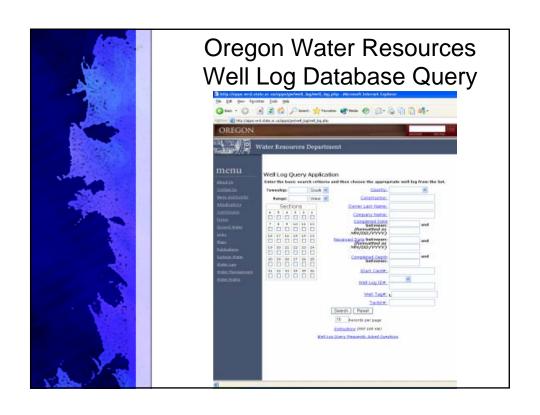


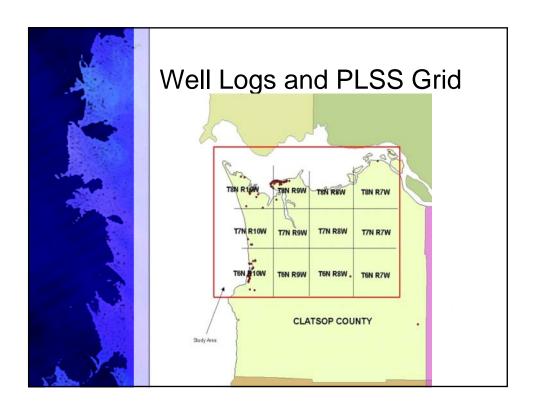
Data Sources

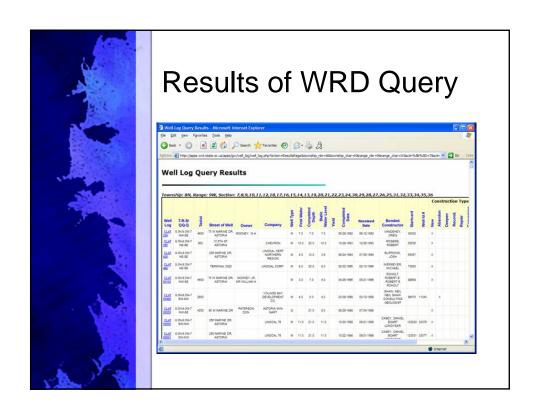
- Water Resources Department Well Logs
 http://apps.wrd.state.or.us/apps/gw/well_log/well_log.php
- ESRI Tiger File location:
 http://www.esri.com/data/download/census2000_tigerline/index.html
- Digital Elevation Map (NED) from: http://seamless.usgs.gov/website/seamless/viewer.php
- Counties, State Boundary, Geology: http://www.gis.state.or.us/data/alphalist.html
- Soils from:
 http://www.or.nrcs.usda.gov/pnw.soil/or-data.html

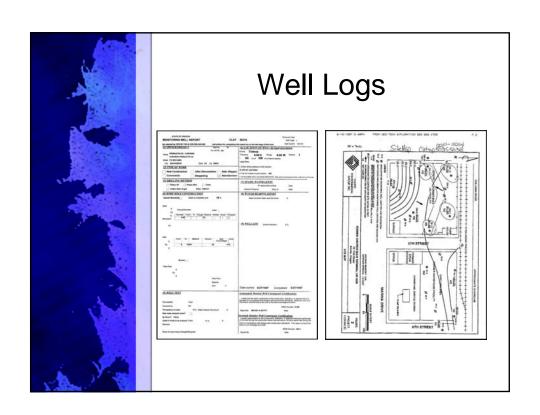












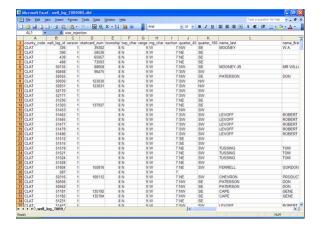


Problems with the Well Log Database

- Database is only searchable by Township and Range.
 Needs for larger datasets are cumbersome to fulfill.
- Wells are only located with address information, not geographic coordinates.
- Wells are not given elevation information i.e., they are assumed to lie at the same elevation.
- Addresses are not updated, and many are out-of-date (some wells are 100+ years old).
- User is given a hyperlinked text file and the option to download a tab-delimitated file.
 - Locating wells within a given area is very time-consuming.



Open in MSEXCEL and save as DBF4





Well Log Statistics

- Started with 1402 well records from Water Resources.
- 404 records have Static Water Level Data recorded and nonzero.
- Correlation coefficient between surface elevation and Static Water Levels was calculated as 0.98 (Very High Correlation).

